

**APPARATUS FOR COUPLING AN OPTOELECTRONIC DEVICE TO A  
FIBER OPTIC CABLE AND A MICROELECTRONIC DEVICE, A  
SYSTEM INCLUDING THE APPARATUS, AND A METHOD OF  
FORMING THE SAME**

Abstract

A device for forming an optical connection between an optoelectronic device and an optical fiber, forming an electrical connection between the optoelectronic device and an integrated circuit, and a forming an electrical connection between the microelectronic device and a substrate, a system including the device, and a method of forming the device and system are disclosed. The device for forming an optical connection includes a light transmission medium and electrical connectors, which are at least partially encapsulated. In addition, the device includes guide grooves configured to receive guide pins from a fiber ribbon connector portion of a fiber ribbon cable assembly, such that when the fiber ribbon connector is attached to the device, the transmission medium provides an optical path between the optoelectronic device and the fiber.